

WHAT IS CLAIMED IS:

1. A radio frequency power monitoring device, comprising:
- a frequency selector configured to pass one or more radio frequency bands of a received radio frequency signal;
  - a power estimator configured to estimate a power level of the received radio frequency
- 5 signal;
- a memory;
  - a processing unit configured to:
    - receive the power level from the power estimator,
    - store the power level in the memory, and
    - construct a record comprising the power level and a unique identifier
  - associated with the radio frequency power monitoring device; and
  - a network interface configured to transmit the record to a measurement collection
- 10 server across a network.
2. The device of claim 1, the power estimator comprising:
- a rectifier configured to rectify the received radio frequency signal; and
  - a filter configured to pass one or more bands of frequencies, the filter comprising at
- least one capacitive device and a plurality of resistive devices, the plurality of resistive
- 5 devices forming a voltage dividing network that supplies portions of the rectified radio frequency signal to a plurality of power level indicators.

3. The device of claim 1, further comprising:  
a display device configured to indicate the power level of the received radio frequency signal.
4. The device of claim 3, wherein the display device comprises the plurality of power level indicators, each of the plurality of power level indicators indicating at least one of a high, medium, and low power level.
5. The device of claim 1, wherein the record is transmitted as one or more packets over an IP network.
6. The device of claim 3, wherein the display device comprises at least one of a liquid crystal display device and a video display device.
7. The device of claim 1, wherein the unique identifier comprises at least one of a device serial number, a device alphanumeric identifier and a network address.
8. The device of claim 7, wherein the network address comprises an IP address.
9. The device of claim 1, wherein the network comprises an IP network.

10. A method of archiving radio frequency (RF) power profiles, comprising:

measuring an RF power level at an RF power monitoring device to obtain a measured

RF power level;

transmitting the measured RF power level and a unique identifier associated with the

5 RF power monitoring device to a measurement archival server across a network; and

storing the measured RF power level and the unique identifier as a data record in the

measurement archival server.

11. The method of claim 10, wherein the network comprises an IP network.

12. The method of claim 10, wherein the unique identifier comprises as least one of a device serial number, a device alphanumeric identifier and a network address.

13. The method of claim 12, wherein the network address comprises an IP address.

14. The method of claim 10, wherein the RF power level is associated with a wireless telephony frequency band.

15. A data structure encoded on a computer readable medium, comprising:

first data comprising a unique identifier associated with a radio frequency (RF) power monitoring device interconnected with a network; and

second data comprising an RF power level measured at the RF power monitoring

5 device.

16. The data structure of claim 15, wherein the network comprises an IP network.

17. The data structure of claim 15, wherein the unique identifier comprises at least one of a device serial number, a device alphanumeric identifier and a network address.

18. The data structure of claim 17, wherein the network address comprises an IP address.

19. The data structure of claim 15, further comprising:

third data comprising a time stamp that indicates a time at which the RF power level was measured at the RF power monitoring device.

20. A system for archiving radio frequency (RF) power levels measured at distributed locations in a network, comprising:

a plurality of RF power monitoring devices, each configured to:

measure an RF power level at a location of the device, and

5 transmit one or more packets comprising the measured RF power level and a

unique identifier associated with the device across a network; and

an archival server configured to:

receive the packets from each of the plurality of RF power monitoring devices,  
and

10           store the measured RF power levels and associated unique identifiers from the  
packets in a power history database.

21.   A radio frequency measurement collection server, comprising:

a memory; and

a processing configured to:

5           receive messages transmitted from radio frequency power monitoring devices  
located at distributed locations in a network,

          retrieve radio frequency power measurement data and unique identifier data  
from each of the received messages, the unique identifier data being associated with  
the radio frequency power monitoring device at which the radio frequency power was  
measured, and

10           store the radio frequency power measurement data and unique identifier data  
in the memory.

22.   A circuit for measuring radio frequency power levels, comprising:

a rectifier configured to rectify an input radio frequency signal;

a filter configured to pass one or more bands of frequencies, the filter comprising at  
least one capacitive device and a plurality of resistive devices, the plurality of resistive

5 devices forming a voltage dividing network that supplies portions of the rectified radio  
frequency signal to a plurality of power level indicators; and

a radio frequency intensity display configured to indicate a power level of the input radio frequency signal, the intensity display comprising the plurality of power level indicators, the plurality of power level indicators indicating high, medium, and low power levels.

23. The circuit of claim 22, wherein the plurality of power level indicators comprise light emitting diodes.

24. The circuit of claim 22, wherein the plurality of power level indicators comprise liquid crystal displays.

25. A system for archiving radio frequency (RF) power profiles, comprising:

means for measuring a RF power level at an RF power monitoring device to obtain a measured RF power level;

means for transmitting the measured RF power level and a unique identifier

5 associated with the RF power monitoring device to a measurement archival server across a network, the unique identifier comprising at least one of a device serial number, a device alpha-numeric identifier and a network address; and

means for storing the measured RF power level and the unique identifier as a data record in the measurement archival server.

26. A method of monitoring radio frequency (RF) power at a hand-held RF power monitoring device, comprising:

receiving RF signals to obtain received RF signals;

frequency selecting the received RF signals to obtain frequency selected RF signals;

estimating a power level associated with the frequency selected RF signals; and

activating at least one of a high, medium and low RF power level indicator based on the estimated power level.

27. The method of claim 26, wherein the at least one of the high, medium and low RF power level indicators comprise light emitting diodes.

28. A hand-held radio frequency (RF) power monitoring device, comprising:

a frequency selector configured to pass one or more RF frequency bands of a received RF signal;

a power estimator configured to estimate a RF power level of the received RF signal;

and

an RF intensity display configured to indicate a level of RF power associated with the received RF signal, wherein the RF intensity display comprises a plurality of indicators and wherein the plurality of indicators indicate high, medium and low RF power level based on the estimated RF power level.